ARCS PROCEDURE:	ADaM REMOVABLE HARD DRIVE	PRO(ADAM)-046.000
	MANAGEMENT SYSTEM (HARD	21 September 2001
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# ADaM Removable Hard Drive Management System (Hard Drive Swap)

### I. Purpose:

The purpose of this procedure is to document the sequence in which the ADaM removable hard drives are managed "swapped" (installed, removed, stored, and shipped). There are 12 removable hard drives in circulation for each site at any given time. The 12 removable hard drives have been grouped in four (4) color coded sets as follows:

Red A, Red B, Red C Green A, Green B, Green C Blue A, Blue B, Blue C Yellow A, Yellow B, Yellow C

A "Removable HD Locations By Week" matrix (Attachment 1) has been prepared with the appropriate sequencing of the hard drives by week and color code. It is imperative that the sequencing does not vary.

#### II. Cautions and Hazards:

None.

#### III. Requirements:

None.

#### IV. Procedure:

#### A. Steps:

- 1. A determination is made by TWPPO that the hard drives are to be swapped. This usually happens the first of each month.
- 2. Using the "Removable HD Locations By Week" matrix, determine the next swap number.
- 3. Enter the date on the matrix in the "Date Swapped" row.
- 4. Prepare the "ADaM Removable Hard (HD) Swap Verification Sheet" (Attachment 2). Using the information from the current matrix column, complete the Verification Sheet with hard drive identifications and corresponding locations.
- 5. Prepare a fax cover sheet (Attachment 3).
- 6. Fax the Verification Sheet to the site.

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- 7. The site will fax a signed and dated copy of the "ADaM Removable Hard (HD) Swap Verification Sheet" back to TWPPO. If you do not receive the fax within 24 hours, notify Monty Apple and contact the site to determine status of swap.
- 8. Notify Monty Apple that the hard drive swap has been completed and fax him the verification sheet for his records. TWPPO will fill out a replacement form (RPL) and log it in OMS (Reference 2)
- 9. File all paperwork.

#### V. References:

- 1. ADaM Removable HD Replacement Procedure, PRO(ADAM)-033.002
- 2. Records Entry Process, PRO(TWPPO)-064.000

#### VI. Attachments:

- 1. Removable HD Locations By Week Matrix (3 pages)
- 2. ADaM Removable Hard Drive Verification Sheet
- 3. Fax Cover Sheet (example)

#### REMOVABLE HARD DRIVE LOCATIONS BY WEEK

27 Oct 00

The Removable Hard Drives (HD) are the data transfer system for all the data from the TWP ARCS sites to the DMF at PNNL in Richland, Washington. Management of the HDs is based on the following assumptions:

- 1. The Removable HDs are reused after data is deleted.
- 2. Each of the ARCS sites gathers all their data on two Removable HDs in ADaM. One is kept on site as an Archive backup and one is sent to PNNL where the data is read and then deleted from the HD.
- 3. PNNL will do all data removal, including removing the data from the Archive HDs.
- 4. Once the system is going there will be 2 HDs sent to PNNL approximately every 4 weeks.
- 5. The mailing sequence for each site is as follows:
  - 2 HDs will stay in ADaM collecting data for approximately 4 weeks to be removed upon direction from TWP.
  - After 4 weeks the 2 HDs are removed from ADaM. One is archived at the ARCS site, and the other is shipped to PNNL along with the previous Archive HD of the same color.
  - 2 weeks are allowed for shipping.
  - 1 week is allowed for PNNL to read the data from the current HD and delete the data from the old Archive HD.
  - 2 weeks are allowed for shipping from SGP to the sites.

The Observers carry out this process via 1) the Daily Rounds instructions, 2) the Weekly Rounds data media mailing instructions, and 3) the ADaM "HD Removal Procedure", all in the On-Site Observer's Manual.

# Initial setup at each site:

- In ADaM: rA, rB
- In "BLANK" container: gA, gB, bA, bB, yA, yB
- In "ARCHIVE" container: rC, gC, bC, yC
- In to be "MAILED" container: empty

## So for 4 week removal frequency:

- Need 3 shipping cases (2 HDs per shipper)
- Need ARCHIVE container for 4 HDs
- Need BLANK container for 4 HDs (2 plus 2 early returns)
- Need To Be MAILED container for 2 HDs.

#### REMOVABLE HD LOCATIONS BY WEEK

#### SHEET 1

Key: rA=red HD"A", yC=yellow HD"C", etc. There are 4 colored (red, green, blue, yellow) sets of 3 HDs each (A,B & C) = 12 in circulation at each site. The HDs will have colored stickers that are permanently attached to the HD and an "in/out" label that is cleaned off each time it is returned to the DMF. Note that the color sequence is RED-GREEN-BLUE-YELLOW-RED-GREEN... etc. In the table below (row 2), the two hard drive bays are labeled SLOT#1 and SLOT#2, and each bay needs to have the correct HD inserted. For example, for the pair of HDs in ADaM during week 01, the top HD (eg. rA) goes in SLOT#1, and the bottom HD (eg. rB) goes in SLOT#2. Following this pattern will ensure that all the HDs will rotate through all the drive bays.

Date M Swapped N			Apr Apr	May 03 May 10	Jun Jun	Jul Jul	Aug Aug	Sep Sep	Oct Oct	Nov Nov	Dec Dec	Jan Jan	Feb Feb					
Swap	1	5	9	13	17	21	25	29	33	37	41	45	49	53	57	61	65	69
SLOT#1 SLOT#2 In ADaM	rA rB	gA gB	bA bB	yA yB	rC rA	gC gA	bC bA	yC yA	rB rC	gB gC	bB bC	yB yC	rA rB	gA gB	bA bB	yA yB	rC rA	gC gA
In Transit to	yB	rA	gA	bA	yA	rC	gC	bC	yC	rB	gB	bB	yB	rA	gA	bA	yA	rC
DMF	yA	rC	gC	bC	yC	rB	gB	bB	yB	rA	gA	bA	yA	rC	gC	bC	yC	rB
At DMF	bB	yB	rA	gA	bA	yA	rC	gC	bC	yC	rB	gB	bB	yB	rA	gA	bA	yA
	bA	yA	rC	gC	bC	yC	rB	gB	bB	yB	rA	gA	bA	yA	rC	gC	bC	yC
In Transit	bB	yB	rA	gA	bA	yA	rC	gC	bC	yC	rB	gB	bB	yB	rA	gA	bA	yA
from DMF*	bA	yA	rC	gC	bC	yC	rB	gB	bB	yB	rA	gA	bA	yA	rC	gC	bC	yC
HD with data in "ARCHIVED Media" container	rC	rB	rB	rB	rB	rA	rA	rA	rA	rC	rC	rC	rC	rB	rB	rB	rB	rA
	gC	gC	gB	gB	gB	gB	gA	gA	gA	gA	gC	gC	gC	gC	gB	gB	gB	gB
	bC	bC	bC	bB	bB	bB	bB	bA	bA	bA	bA	bC	bC	bC	bC	bB	bB	bB
	yC	yC	yC	yC	yB	yB	yB	yB	yA	yA	yA	yA	yC	yC	yC	yC	yB	yB
HD without data in "BLANK Media" container	gA	bA	yA	rA	gA	bA	yA	rC	gC	bC	yB	rA	gA	bA	yA	rA	gA	bA
	gB	bB	yB	rC	gC	bC	yC	rB	gB	bB	yC	rB	gB	bB	yB	rC	gC	bC



# ARCS1 - Manus

# Serial Numbers for Removable Hard Drives

RedA	24513870011	BlueA	24514240112
RedB	24513870008	BlueB	24514240113
RedC	24514240116	BlueC	24514240102
GreenA	24514240095	YellowA	24514240106
GreenB	24514240103	YellowB	24513090229
GreenC	24514240105	YellowC	24514240104

## ARCS2 - Nauru

# Serial Numbers for Removable Hard Drives

RedA	24513870009	BlueA	24514240096
RedB	24514240118	BlueB	24514240107
RedC	24514240109	BlueC	24514240097
GreenA	24514240099	YellowA	24514240108
_	24514240099 24514240100		24514240108 24514240114

# Attachment 2: ADaM Removable Hard (HD) Swap Verification Sheet

# **ATTACHMENT 3: Fax Cover Sheet (example)**

# ARM-TWPPO

# ATMOSPHERIC RADIATION MEASUREMENTS - TROPICAL WESTERN PACIFIC PROJECT OFFICE

FACSIMII	LE TRANSMITTAL SHEET	
TO: OFFICER IN CHARGE	FROM:  MONTY APPLE	<del></del>
COMPANY: ARCS SITE	DATE: MAY 31, 2001	
	TOTAL NO. OF PAGES INCLUDING COVER:	
REFERENCE:  ADaM Removable Hard Driv	ve Swap	
NOTES/COMMENTS:		
	r. Please verify that the hard drives are in the ification Sheet. If you have any questions, plea	ase
Please fax the signed Verification Sheefinish the disk swap. Fax number is <b>50</b>	et to Larry Jones at the TWPPO as soon as you <b>5-667-9122</b> .	J
Thank you,		
Monty Apple		
